

Device for Automated Manipulation of Articles

Abstract

A device for automated manipulation of articles along a predetermined movement path has a working area having a working surface for articles. The device also has a manipulator with a gripping device for moving the articles. The working surface consists of neighboring longitudinal elements, wherein longitudinal gaps are formed between the neighboring longitudinal elements. The gripping device has at least one gripping finger that can be lowered into the longitudinal gaps between the neighboring longitudinal elements and moved into a position underneath an article for picking up the article. The article is essentially secured in the gripping device by a combination of acceleration forces generated along a movement path of the gripping device and of the force of gravity.